

L 11826-66

ACC NR: AP6001569

3

The code pulses separate the reference pulses from the detector signals after amplification. These same code pulses prevent registration of the reference pulses when the detector signals are being recorded. Pulses from a second amplitude-controlled oscillator may also be fed to the preamplifier input for simulating detector signals when checking the operation of the device. From the output of the preamplifier, the signals being studied and the reference pulses are fed to the third grid of a 6A3P tube, which controls amplification during stabilization. Amplification control voltage from the stabilization unit is fed to the first grid of this tube. The signals are then amplified by a UIS-II amplifier and fed through the expander to the amplitude analyzer. The various sections of the unit are described in detail, with diagrams of the cooling unit, low-noise preamplifier, expander, stabilization circuit, and output stage of the amplitude-controlled oscillator. Tests showed that continuous-duty stability of the analyzer is better than 0.15% with no apparent effects of interference from the cyclotron with which it is designed to be used. The authors thank S. M. Ryvkin, O. A. Matveyev, and N. B. Strohan for graciously supplying experimental detector models. Orig. art. has: 8 figures. [08]

SUB CODE: 10, 09/SUBM DATE: 17Oct64/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS: 4/77

HW
Card 3/3

GAL'PERIN, L.N.; MASHKINOV, L.B.; SOKOLOV, D.N.

Laboratory automatically-integrating chromatograph. Izv. tekhn.
no.11:50-51 N '65. (MIRA 18:12)

ACC NR: AP6034227

(N)

SOURCE CODE: UR/0120/66/000/005/0110/0114

AUTHOR: Nazarov, V. B.; Zabrodin, V. A.; Kirillov, P. K.; Gal'perin, L. N.

ORG: Affiliate of the Institute of Chemical Physics, AN SSSR, Chernogolovka (Filial Instituta khimicheskoy fiziki AN SSSR)

TITLE: Reversible digital to analog converter counter based on decatrons

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 110-114 .

TOPIC TAGS: pulse counter, digital analog converter

ABSTRACT: Figure 1 shows a simplified diagram of the digital to analog converter, associated with an up-down counter utilizing decatrons as counting elements. Such a counter is frequently needed in automatic control applications, where it is necessary to obtain a voltage proportional to the accumulated number of pulses. While the actual counter circuitry is conventional for use with decade counting and glow transfer tubes, the method of digital to analog conversion is quite unusual. As shown in figure 1, each decade is equipped with a bank of resistors. One resistor is associated with each cathode (except "0") in each of the three decatrons. The resistor values are weighted to generate output voltage exactly proportional to the instantaneous accumulated pulse count stored in the decatrons. Constant current sources are used to supply each of the tubes. The design of the current sources is conventional, utilizing a series triode in

Card 1/2

UDC: 621.374.324

ACC NR: AP6034227

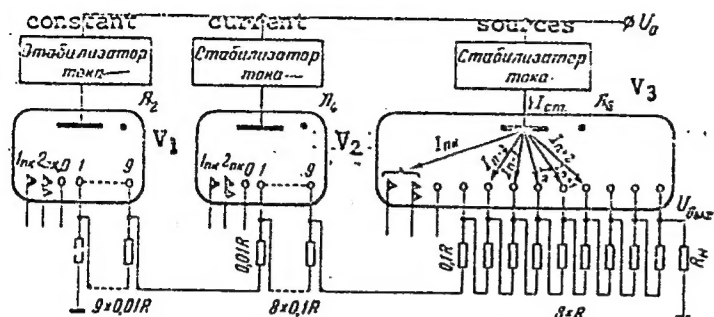


Fig. 1.

which the grid bias is maintained constant by a transistor network with a voltage reference in the form of a glow tube. The expressions for the output voltage and the predictable errors are given as functions of the pulse count and the circuit parameters. The total conversion error does not exceed 0.1% for temperature fluctuation of $\pm 5^\circ\text{C}$ and line voltage changes of $\pm 10\%$. Transistor logic is utilized in the input signal and the steering control. The instrument can be used for generation of extremely long ramp voltages. In this case the input pulses are generated by a crystal controlled oscillator. Orig. art. has: 4 figures, 5 formulas.

SUB CODE: 09/

SUBM DATE: 27Aug65/

ORIG REF: 003/

OTH REF: 001

Card 2/2

VASIL'YEVA, A.V.; STEPANYAN, Ye.G.; GAL'PERIN, I.P.; YURKO, L.P.; ORAKAYEVA, N.S.

Epidemiology of typhus abdominalis and paratyphoid fever in the
City of Ashkhabad. Zdrav. Turk. 5 no.4:14-16 J1-Ag '61.

(MIRA 14:10)

1. Iz Ashkhabadskogo instituta epidemiologii i gigiyeny (direktor -
dotsent Ye.S.Popova).

(ASHKhabAD—TYPHOID FEVER)

(PARATYPHOID FEVER)

ACC NR: AP6026945

SOURCE CODE: UR/0115/66/000/007/0015/0017

AUTHOR: Gal'parin, L. N.; Dovbiy, Ye. V.

ORG: none

TITLE: Discrete instrument for measuring average rates of long slowly-varying weak signals.

SOURCE: Izmeritel'naya tekhnika, no. 7, 1966, 15-17

TOPIC TAGS: digital integrator, industrial automation

ABSTRACT: The new instrument uses a discrete integration (instead of differentiation) principle which is little sensitive to certain noise. The principal circuit of the instrument ensures the measuring interval $\Delta t = \text{const.}$ and the time between intervals $t_0 = \text{const.}$; integration of the input function during Δt in the beginning and the end of the measuring cycle; subtraction of the results by the end of the measuring cycle;

recording of $U(t)$ and $\int_{t_0}^{t_0+\Delta t} U(t) dt - \int_{t_0}^{t_0+\Delta t} U(t) dt$; and restoration of the system to its initial

state for the new cycle. A block diagram of the instrument having an 800-sec cycle ($\Delta t = 100 \text{ sec}$, $t_0 = 600 \text{ sec}$) is expalined. An experimental model of the instrument developed at the IKhF AN SSSR has 11 fixed ranges for maximum input signals 50--500 μV and maximum rates of change of the input signal 0.1--4 $\mu\text{V/min}$; maximum time of continuous recording, over 10 hrs. Claimed instrument error, $\pm 3.2\%$.

Orig. art. has: 1 figure and 6 formulas.

SUB CODE: 13, 09 /SUBM DATE: none / ORIG REF: 006 / OTH REF: 003

Card 1/1

UDC:681.142.644.3

FIST AND TWO CODES		PROCESSING AND PROPERTY CODES																																																																																																																																																																																																									
CA		<p>Photocolorimetric determination of titanium in refractory steel by the composition method. L. V. Gal'perin. Zashchita Lab. II, No. 1, 105-8(1945). Comparative detns. of Ti by various methods with standard samples contg. 0.40 and 0.13% of Ti indicated that the best results are obtained by the cupferron method. Dissolve the samples in 80 ml. of 7 N H₂SO₄, oxidize by adding concd. HNO₃ dropwise. Evap. until 50% fumes appear, add 100 ml. of water, filter and wash several times with 1.2 N HCl. Ignite the 50% residue, heat with 11F + H₂SO₄, fuse the residue with 2 g. of K₂CO₃, ext. the melt with water, and add the soln. to the main filtrate. Add the contents of the filters and, dropwise with shaking, 1.5 ml. of 3% cupferron soln. to this filtrate. Let the ppt. of Fe and Ti settle for 10-15 min., filter, wash 15 times with 5% H₂SO₄ and 7 times with 5% of NH₄OH by vol. to remove W and Mo. Ignite the residue, and fuse with K₂CO₃. Ext. the melt with hot water, add 1 ml. of 25% NaOH, boil slightly, and filter (the residue contains Na₂TiO₃ and Fe(OH)₃), the soln. contains V), wash the filter with hot 1% Na₂CO₃, dry, ignite in a Pt crucible, and fuse with K₂SO₄. Ext. the melt in 65 ml. of 10% H₂SO₄, heat the soln. (if not clear), cool, transfer to a 100-ml. measuring flask, add distd. water to the mark, and measure in the photocolorimeter the color produced in an aliquot treated with H₂O₂. Five references.</p> <p>W. R. Henn</p>																																																																																																																																																																																																									
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HALPERIN, L. V.

CA

7

A new method for the determination of aluminum in the "TaAM" alloy. L. V. Halperin. *Zavodskaya Lab.* 11, 482-3 (1946). - "TaAM 4-5" and "TaAM 10-5" are Zn alloys contg., resp., 0.8-1.3 and 4-6% Cu 3.8-4.5 and 9-11% Al. Dissolve 1 g. of the alloy by heating with 30 ml. of 6 N H_2SO_4 , neutralize the soln. with NH_4OH until a turbidity appears. Dissolve the ppt. with several drops of H_2SO_4 , heat to boiling, add 15 ml. of hot 1% benzoic acid soln. and 2 g. NH_4 benzoate, let the soln. and ppt. formed stand for 10-15 min. in a warm place, filter wash with hot water until the wash water is colorless, ignite the ppt. at 1000° and weigh as Al_2O_3 . W. R. Henn

ASB S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

ANATOL'YEVSKIY, P.A., inzh.; GAL'PERIN, L.V., inzh.

Suction boring during erection of bridge pile foundations. Transp.
stroil. 13 no.9:68-70 S '63. (MIRA 16:12)

ANATOL'YEVSKIY, P.A.; GAL'PERIN, L.V.

Installation of a seepage control curtain by the suction boring method.
Osn. fund.i mekh.grun. 6 no.1:31-32 '64. (MIRA 17:2)

ANATOL'YEVSKIY, P.A., inzh.; GAL'PERIN, L.V., inzh.

Rotary and suction method of boring. Gor.zhur. no.4:75-77 Ap
'64. (MIRA 17:4)

1. Gosudarstvennyy institut po proyektirovaniyu spetsial'nykh
sooruzheniy promyshlennogo stroitel'stva Gosstroya SSSR.

ANATOL'YEVSKIY, P.A., inzh.; GAL'PERIN, L.V., inzh.

Construction and calculation of radiant water intakes in the
Federal Republic of Germany. Vod. i san. tekhn. no.9:36-38 S
'64. (MIRA 17:11)

ANATOL'YEVSKIY, Pavel Aramovich; GAL'PERIN, Leonid Vladimirovich;
KAZ'PIN-BALASHOV, A.I., inzh., nauchn. red.

[Intakes for underground water; practices abroad in designing, constructing, and maintaining radial intakes] Vodozabor podzemnykh vod; zarubezhnyi opyt proektirovaniia, stroitel'stva i ekspluatatsii luchevykh vodozaborov. Moskva, Stroiizdat, 1965. 117 p. (MIRA 18:10)

TALOVA, H.A.; GAL'PERIN, L.V.

Underwater tanks for storing petroleum by the "Sontank"
method. Stroi. truboprov. 10 no. 11:35-36 N '65.

(ИТА 18:12)

C. 4

25

Utilization of fixatives DTsU and DTsM. L. Ya. Gal'perin and M. M. Goldsman. *Tekhn. Prom. 11, No. 4, 1951*. DTsU is the acetate of the base DTs and is formed by the hydrolysis in H₂O of the resin obtained by condensing dicumylamide with HCHO while DTsM is the copper deriv. of DTsU. Direct-dyed, dark-colored knitted material is thoroughly washed and treated for 20 min. at 35° in bath contg. 3 g./l. of fixative. DTsU increases resistance against laundering at 40°, perspiration, and wet rubbing but not against dry rubbing. resistance against light is decreased (according to literature data). DTsM does not have these drawbacks. B. Z. Kamich

ROZHNOV, V.Ye; TUROVA, Z.G.; GAL'PERIN, L. Ye. (Moskva)

Some neurodynamic and biochemical changes in chronic alcoholics under the influence of small doses of alcohol. Trudy Gos. nauch-iscl. inst. psikh. 38:203-210 '63. (MIRA 16:11)

YAKIMUK, P.G., inzhener-mekhanik; VASILYUK, N.F.; GAL'PERIN, L.Yu.;
ZAYTSEV, T.F.; KARPEN'KO, S.A.; STEPANENKO, A.N.; YAVORSKIY, A.A.;
SHAGOMYALO, V.I., redaktor; GURZHIY, M.Ye., tekhnicheskiy redaktor

[Tractor operator's manual] Spravochnik traktorista. Izd. 4-oe,
perer. i dop. Kiev, Gos. izd-vo selkhoz. lit-ry USSR, 1955. 519 p.
(Tractors--Handbooks, manuals, etc) (MIRA 9:1)

VASILYUK, N.F.; GAL'PERIN, L.Yu.; ZAYTSEV, T.F., KARPENKO, S.A.; STEPANENKO, A.N.; YAVORSKIY, A.A.; YAKIMUK, P.G., inzhener-mekhanik, redaktor; KOZAK, F.Ye., redaktor; CHEREVATSKIY, S.A., tekhnicheskiiy redaktor

[Handbook for tractor operators] Spravochnik traktorista. Izd. 5-oe. perer. i dop. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR, 1956. 471 p.
(Tractors) (MIRA 10:4)

SIZOV, A.A., inzh.; GAL'PERIN, L.Yu., arkhitekt

" Technical and economic efficiency of buildings constructed by
the method of lifting. Biul.tekh.inform.po stroi. 5 no.12:
3-4 59. (MIRA 13:4)
(Leningrad--Apartment houses)

MOROZOVSKAYA, M.I.; DEMCHENKO, I.A.; TISHCHENKO, O.D.; GORELYSHEVA, I.I.;
YEVLAYHOVA, V.F.; NADTOCHKIY, S.S.; GAL'PERIN, L.Yu; BELYI, Ya.M.;
LAZEBNYY, N.V.; DEREVENKO, V.I.; SERVINEKO, G.A.; SHEVCHUK, M.K.;
D'YACHENKO, V.I.; AGAFONOV, N.I.; BESFAMIL'NAYA, P.S., CHERNENKO, Yu.L.

Preventive antimalaria measures for lumberjacks employed in clearing
the bed of the future Kakhovka Reservoir. Med.paraz. i paras.bol.24
no.3:207-208 J1-S '55. (MLRA 8:12)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta malyarii i
meditsinskoy parazitologii imeni prof. V. Ya. Rubashkina (dir.
instituta I.S.Demchenko) i Zaporozhskoy, Dnepropetrovskoy i
Khersonskoy oblastnykh protivomalyariynykh stantsiy.
(MALARIA, prevention and control,
in Russia, in forest workers)

GAL'PERIN, L.Yu.; ZUSSER, A.P.; IOFFE, M.I.; MINTS, V.M.; SIZOV, A.A.;
STAROVYTOV, I.F., red. izd.-va; PUL'KINA, Ye.A., tekhn. red.

[Experience in the design and erection of buildings by elevat-
ing the stories] Opyt proektirovaniia i montazha zdanii meto-
dom pod"ema etazhei. Leningrad, Gosstroizdat, 1962. 147 p.
(MIRA 15:8)

(Precast concrete construction)
(Hoisting machinery)

GAL'PERIN, M.

GAL'PERIN, M., kand.tekhn.nauk; ABEZGAUZ, V., inzh.

Mechanized work on frozen soils. Stroitel' no.11:12 N '57.

(MIRA 10:12)

(Excavating machinery)

(Earthwork--Cold weather conditions)

GAL'PERIN, Mariya.

[Angiography of the brain; angiographic symptomatology of tumors of the big hemispheres] Angiografiia golovnogo mozga; angiograficheskaiia sumptenatolegiia opukhlei bel'shikh polusharii.

[Leningrad] Medgis, 1950. 145 p.

(MLRA 9:4)

(BRAIN--TUMORS) (DIAGNOSIS, RADIOSCOPIC)

GAL'PERIN, M., kand. tekhn. nauk; ABEZGAUS, V., inzh.

Operations of vibrators, Stroitel' no.1:27-29 Ja '58. (MIRA 11:2)
(Vibrators)

84-58-6-29/59

AUTHOR: Gal'perin, M., Engineer

TITLE: The An-10 Aircraft - Electrical Equipment (Samolet An-10 -
- Elektrooborudovaniye)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 6, pp 28-29 (USSR)

ABSTRACT: The article describes, in some detail, but in general terms the power supply system of the new airliner, the total output of which is 128 kilowatts. The high degree of electrification is also illustrated by the total cable length, which is between 40 and 45 kilometers.

1. Aircraft--USSR 2. Power supplies--Applications

Card 1/1

ACCESSION NR: AP4044124

S/0084/64/000/008/0023/0029

AUTHOR: Gal'perin, M. (Engineer); Ushakov, O. (Engineer); Vasil'chenko, O. (Engineer)

TITLE: The resource is doubled

SOURCE: Grazhdanskaya aviatsiya, no. 8, 1964, 28-29

TOPIC TAGS: piston aircraft, scoring, local overheating, connecting rod, cylinder, side pressure, lubricant, oil

ABSTRACT: This article deals with the necessity of increasing the reliability and resources of piston aircraft. In the case of the Il-14, Il-12 and An-2 aircraft the main cause of trouble seems to be the scoring of the pistons no. 2 and 5 caused by local overheating and side pressure. These two pistons, coupled to the main connecting rods, are acted upon by forces of 2035 and 1600 kg during compression and expansion, respectively. The Omsk aircraft factory has solved the problem of decreasing the side pressure on the working surface of the pistons by means of decreasing the deformation of the cylinders through constant and uniform air cooling. The Omsk designers have succeeded in lowering the piston temperature, improving the cylinder lubricants and finally, reducing the loss of horsepower of the cylinders of

Cord 1/2

ACCESSION NR: AP4044124

the main connecting rods. All these improvements have almost doubled the life span of these piston engines. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: AC

NO REF SOV: 000

OTHER: 000

Cord 2/2

ACC NR: AP6032241

SOURCE CODE: UR/0084/66/000/010/0022/0022

AUTHOR: Gal'perin, M. (Engineer, Omsk); Vasil'chenko, G. (Engineer, Omsk)

ORG: none

TITLE: Introducing centrifugal oil cleaner

SOURCE: Grazhdanskaya aviatsiya, no. 10, 1966, 22

TOPIC TAGS: oil cleaning device, aviation oil cleaner, ~~oil cleaning~~ centrifuge, fuel oil, fuel contamination, lubricating oil, petroleum refinery equipment, aircraft engine, aircraft fuel system equipment, ASH-82V engine, ASH-80AT engine

ABSTRACT: A centrifugal oil cleaner has been designed at the Omsk Engine Building Plant im. Baranov to clean impurities from aviation oils, which results from the operation of ASH-82V and ASH-82T engines on Il-14 airplanes and Mi-4 helicopters. Oil, injected into the centrifuge through tangentially located nozzles, imparts a circular motion to the centrifuge rotor. When the oil pressure reaches 3—4 kg/cm², the rotor spins at 5000 rpm. The heavy particles settle on the walls of the centrifuge, while the cleaned oil flows through the nozzles into the housing and is pumped out. A detailed description and drawing of the centrifugal oil cleaner are given. Orig. art. has: 1 figure.

SUB CODE: 21, 01, 11 / SUBM DATE: none

Card 1/1

<p>18</p> <p>15 GAL'PERIN, M.-A.</p>	
<p>Investigation of the Open-Hearth Process in Relation to the Faults due to Non-Metallic Inclusions found in Rolled Plates for Electric Locomotive Frames. M. A. Gal'perin. (Metallurgist, Russia, 1937, vol. 12, No. 2, Feb., pp. 21-30). (In Russian). The author examined the mechanical properties of test-pieces from faulty locomotive frames and compared these properties with the composition of the steel and the number of non metallic inclusions in it. no direct relationship could be traced. Melting practice and methods of reducing the number of inclusions are also discussed.</p>	
<p>ASB. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION</p>	
<p>1930-1939</p>	<p>1940-1949</p>
<p>1950-1959</p>	<p>1960-1969</p>
<p>1970-1979</p>	<p>1980-1989</p>
<p>1990-1999</p>	<p>2000-2009</p>
<p>2010-2019</p>	<p>2020-2029</p>
<p>2030-2039</p>	<p>2040-2049</p>
<p>2050-2059</p>	<p>2060-2069</p>
<p>2070-2079</p>	<p>2080-2089</p>
<p>2090-2099</p>	<p>2100-2109</p>
<p>2110-2119</p>	<p>2120-2129</p>
<p>2130-2139</p>	<p>2140-2149</p>
<p>2150-2159</p>	<p>2160-2169</p>
<p>2170-2179</p>	<p>2180-2189</p>
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PHASE I BOOK EXPLOITATION SOV/2050

Svar'ka sbornik statey, [typ] 1 (Welding: Collection of Articles, Br 1) Leningrad, Sudpromgiz, 1958. 246 p. 4,000 copies printed.

Reep. Ed.: O. I. Meyrin, Candidate of Technical Sciences; Ed.: I. A. Zaitseva; Tech. Ed.: K. M. Volchok.

PURPOSE: This collection of articles is intended for use in research institutes, institutes of higher learning, design offices, and plants.

COVERBACK: These technical papers deal with the results of research in welding technology. The main purpose of this work was to investigate the effects of various welding regimes and heat treatments on the mechanical properties of welds and metal with the welding composition. A number of experiments also dealt with the welding properties and weldability of titanium-base alloys and a number of nonferrous metals. One of the objects of the research was to establish the relationship between the geometry of the weld seam and its physical properties. The crystallization of the weld, its mechanical properties, and the various factors affecting the grain structure of the metal were studied by a number of scientists. Of special practical interest is the study of the behavior of a welded structure in which the elasticity of the material and of the welded joint are not within the same range. These considerations lead to experiments with mechanically induced changes in the properties of the weld seam. Another problem which presents many difficulties in welding is the behavior and changes in the heat-affected zone next to the welded joint. One of the papers deals with experiments in this field. A description is given of the equipment and the technique used in electroslag welding, which is regarded as one of the major advances in modern welding technology. Several papers deal with welding techniques of some ferrous alloys and with the use of special fluxes for this work. Most of the papers are profusely illustrated with graphs, diagrams, and photographs. References are given after each article.

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Welding (Cont.)

SOV/2050

Gul'berin, M.A., Candidate of Technical Sciences; V.V. Ardentov; A.V. Ivanov, Engineer; and Z.I. Kopel'man-Serpukhova, Study of Effect of Prolonged Heat Treatment on Physical and Mechanical Properties of Austenitic Steel	73
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GAL'PERIN, M.A., kand.tekhn.nauk; ARDENTOV, V.V.; IVANOV, K.M., inzh.;
KOPEL'MAN-SERPUKHOVA, Z.I.

Studying the effect of prolonged heat treatment on the physico-
mechanical properties of deposited austenitic metal. Svarka
1:73-85 '58. (MIRA 12:8)

(Hard facing--Testing)

(Electrodes--Testing)

(Metals at high temperature)

25(1)

AUTHOR:

Gal'perin, M.A., Ardentov, V.V.

SOV/125-59-1-6/15

TITLE:

The Influence of the Prolonged Tempering of Austenite Welded-On Metal on its Tendency to Intercrystalline Corrosion (Vliyanie dlitel'nogo stareniya austenitnogo naplavlennogo metala na sklonnost' ego k mezhkristallitnoy korrozii)

PERIODICAL:

Avtomaticheskaya svarka 1959, Nr 1, p 36-42 (USSR)

ABSTRACT:

If a welded structure of 1Kh18N9T-type steel is put into operation under higher temperature conditions, the tendency of the steel and of the metal to intercrystalline corrosion must be determined by methods prescribed by GOST, and after prolonged tempering at working temperatures. The fitness of a material designed to operate under concrete conditions can be determined only after all data had been duly examined. A prolonged tempering at 500°C of the 1Kh18N9T-type steel and of Kh18N9B, Kh20N9B, Kh18N9M3, Kh18N9FCM-type welded-on metals, abruptly decreases the metal resistance to such corrosion. It has been proved experimentally that a loss of

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SOV/125-59-1-6/15

The Influence of the Prolonged Tempering of Austenite Welded-On Metal
on its Tendency to Intercrystalline Corrosion

metal resistance to such corrosion may be ascribed to
changes in composition in the carbide phase, especially
to an increase of chromium. There are four tables, two
photos, one graph, and two Soviet references.

ASSOCIATION: TENII GKS

SUBMITTED: May 7, 1959

Card 2/2

GAL'PERIN, M.A., kand.tekhn.nauk

Effect of heat treatment on the properties of fusion edges in welding
dissimilar steels. Svarka 2 '59. (MIRA 14:5)

(Steel---Welding)

(Welding---Testing)

GAL'PERIN, M.A., kand.tekhn.nauk

Structural changes in the boundary zone of weld joints in dissimilar
steels. Svarka 2:47-57 '59. (MIRA 14:5)
(Steel—Welding) (Steel—Metallography)

GAL'PERIN, M.A., kand.tekhn.nauk; ARDENTOV, V.V., kand.tekhn.nauk; IVANOV,
K.M., inzh.

Tendency toward intercrystallite corrosion in austenitic filler metal
depending on temperature and time of aging. Svarka 2:71-76 '59.

(Steel—Corrosion) (Metals, Effect of temperature on) (MIRA 14:5)

GAL'PERIN, M.D., professor, doktor meditsinskikh nauk; ZAYCHIKOVA, N.A.

The role of V.M.Bekhterev in the development of neurorentgenology
in Russia. Vest.rent. i rad. 31 no.5:91-93 S-O '56. (MLRA 10:1)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. M.D.Gal'perin)
Psikhonevrologicheskogo instituta imeni V.M.Bekhtereva (dir. - prof.
V.M.Myasishchev)

(BRAIN, radiography
contribution of V.M.Bekhterev)
(BEKHTEREV, VLADIMIR MIKHAILOVICH, 1857-1927)

GAL'PERIN, M.D.

GAL'PHRIN, M.D., prof.

Angiographic symptoms of tumors and of some other diseases
simulating tumors of the brain. Vop. neirokhir. 21 no.6:3-9
M-D '57. (MIRA 11:2)

1. Rentgenologicheskoye otdeleniye Leningradskogo psikhonevrolo-
gicheskogo instituta imeni V.M.Bakhtereva.

(BRAIN NEOPLASMS, differ, diag.

angiography)

(ANGIOGRAPHY, CEREBRAL, in various dis.
brain cancer, differ, diag.)

GAL'PERIN, M.D., prof., ZAYCHIKOVA, N.A., starshiy nauchnyy sotrudnik

Radiation damage to the skull. Vest.rent. 1 rad. 33 no.5:96-98
S-0 '58 (MIRA 11:11)

1. Iz rentgenologicheskogo otdeleniya Leningradskogo psikhonevrologi-
cheskogo instituta imeni V.M. Bekhtereva (dir. - prof. V.N. Myasishchev)
(RADIATION, inj. eff.
on cranium (Rus))
(CRANIUM, eff. of radiations on
inj. eff. (Rus))

GALPERIN, M.D.

850 Experiences with Irradiation of Patients with Cerebral Tumors

GALPERIN, M. D.

Leningrad (Sovjetunion)

At present, radiotherapy is regarded as being the most effective therapy. The combined methods occasionally prove to be highly beneficial.

The prerequisites for the success of either method of treatment of tumors in early diagnosis. For the successful treatment of brain tumors, the choice of the method is all important. The surgical and irradiation treatments are not competitive. Taking into consideration the position of the tumor, its extent, its histological structure, the characteristics of the clinical course and the general condition of the patient, preference should be given to one or the other method.

The author examined recent and past results of irradiation and combined irradiation and surgical treatment of brain tumors during 1955-1958. 100 case histories of patients of the Neurological Department of the Red Army Institute of Neuro-Psychology were evaluated.

Irradiation was performed on patients with tumors of varied localization and of different histological structure. Comparative assessment of the results of the different methods of irradiation in the patients was carried out, depending on the histogenesis of the tumor.

Analysis of these case histories indicates that the elaborated and applicable methods of irradiation of brain tumors prolong considerably the life of the patient and have an immediate, marked curative effect.

The complications occurring during treatment as well as afterwards were also studied. Clinical infections and contra-indications of irradiation of patients with brain tumors were elaborated.

851 Effect of the Chronic Influence of Low Doses of Ionizing Radiation on the Humoral and Cell-Lymph Immunity in Animal Experiments

KISILEV, P. N. 9 156 L E V

BUDNI, P. A.

Leningrad (Sovjetunion)

The authors investigated the changes in natural immunity and immunogenetic processes in laboratory animals under chronic irradiation with low doses of the gamma rays of ^{60}Co . The dose performance of the irradiation was 1.6-2.2 r/day. The period of irradiation lasted from 30 days to 25 years. The total dose was 50-2,500 r. The effects of these irradiation doses led to the development of chronic radiation illness. On this basis the disorder in the humoral and cellular natural immunity and immunogenesis was investigated, with the following results:

1. Under chronic, uninterrupted action, lethal radiation disease develops through auto-infection. The total lethal dose exceeds the single dose by 2-4 times. Chronic radiation illness is accompanied by negligible leucopenia, provided by a phase of leucocytosis.

2. Under chronic irradiation natural immunity and immunogenesis are disturbed. Reduction of natural immunity appears after 9-10 months and becomes manifest by a reduction of bactericidal activity of the blood, leucopenia and reduction of phagocytic activity of the leucocytes. A change in the titre of the complement was observed only as late as after 10-12 months. Bacteremia is preceded by reduced bactericidal activity of the blood.

3. The disturbance of cellular immunity is indicated by an increased sensitivity to tumor, by an enhanced reproduction of virus, by a weakening of the organosomal and digestive capability of the reticulo-endothelial cells.

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V. 102-103

6 The most marked reduction of natural immunity occurs in young animals born of irradiated parents and subjected during the period of embryogenesis to the effect of irradiation.

7 Chronic irradiation of an organism leads to disturbance of immunogenesis. However, at an irradiation dose equal to a single one, the production of antibodies is less suppressed. These differences are connected with the adaptive mechanisms and regenerative processes in the tumor producing the antibodies.

8 The phase of suppression of natural immunity and immunogenesis may be preceded by a period of their stimulation. At a total dose of 50-100 r, the following is observed: increase of bactericidal activity of the blood, increasing phagocytic activity of the leucocytes, of the cells of the reticulo-endothelial system, reduction of sensitivity to tumor inoculation of anti-body formation.

852 Irradiation of Cancer of the Oral Cavity, the Nasopharynx, and the Larynx

KISHIOWA A W K C Z L O V A A V

Moscow (Sovjetunion)

Early results of the use of radio-active preparations (radium, radon-active roshin gold thorophosphate) in the treatment of 218 patients are presented. Among these 218 patients there were 37 with malignant tumors of the oral cavity, 51 with malignant tumors of the nasopharynx and 130 patients with well-defined tumors of the larynx.

Growth in the 1st and 2nd stages were found in 60 patients, stage 3 in 109 and stage 4 in 149 patients.

Treatment consisted in the combined method of ray therapy (radium therapy, roshin therapy, radon therapy and teletherapy).

The patients were under observation over 1-18 years. Recovery was observed in 66% of the patients with malignant tumors in all 4 stages.

In some of the patients irradiation is followed by complications. The methods and the results of treatment are discussed.

853 Radiological Investigations and Rational Means of Reducing the Dose During these Investigations

POBODINSKY, M. N.

Leningrad (Sovjetunion)

During recent years the natural level of radiation has risen continuously. One of the factors raising this level are the radio-diagnostic examinations, which, according to reports from foreign authors, increase the amount of radiation acting on the population by 22% - 30%.

Particular attention should be given to the effect of radiation on the sex glands. Genetic sequelae of radiation may occur even with very low doses.

In X-ray exposures and fluoroscopy the tumor dose of the radiation striking the sex glands may be 100-1,000 mrad. The variations in dose depend on the conditions of radiation, and also on the part of the body in which radiation is directed. The highest doses affecting the sex glands occur in examinations of the pelvic region, the hip and the abdomen, especially when repeated.

The necessity for an ever-increasing extension of radio-diagnostic for the population, and the new methods of radiological examinations in practice, require research into means for reducing the radiation dose acting on the sex glands during X-ray exposures and fluoroscopy. In order to reduce the radiation dose and to prevent serious radiation effects, the following is required: highly qualified medical staff carrying out the radio-diagnostic examinations, knowledge of the radiation dose to which the patient is subjected and registration of the dose in the patient's card-index. The examinations should be performed with harder rays, using heavier filters and increased voltage as well as short focal distance.

In fluoroscopy the following is required: satisfactory adaptation of the eyes of the examiner, organization of the working hours and low temperature. In addition, the advantages of working with narrow beams should be made use of.

In radiological examination of the pelvic region, the hip and the abdomen, the sex glands must be protected from direct radiation.

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Presented at the Ninth International Congress of Radiology, Munich, 23-30 July 1959.

GAL'PERIN, M.D., prof.

Seventh International Oncological Congress in London. Vop.neirokhir.
23 no.5:52-53 S-0 '59. (MIRA 12:11)
(ONCOLOGY--CONGRESSES)

GAL'PERIN, M.D., prof.

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of the base of the brain in neurosurgery and neuro-ophthalmology."
Vop.neirokhir. 23 no.5:60-61 S-O '59. (MIRA 12:11)
(BRAIN--RADIOGRAPHY) (FISCHGOLD, H.) (DAVID, M.) (BREGAT, P.)

GAL'PERIN, M.D.

Tomography of the skull and brain. Sbor. trud. Len. nauchn. ob-va
nevr. i psikh. no.6:83-95 '59. (MIRA 13:12)

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imeni V.M. Bekhtereva (direktor - chlen-korrespondent Akademii peda-
gogicheskikh nauk RSFSR prof. Myasishchev).
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GAL'PERIN, M.D.; ZAYCHIKOVA, N.A. [deceased]; PIL', B.N.

Significance of contrast methods of investigation in the diagnosis
of nervous and mental diseases. Trudy Gos. nauch.-issl. psikhonevr.
inst. no. 20:41-53 '59. (MIRA 14:1)

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GAL'PERIN, M.D. . . .

New methods for X-ray tomography in diseases of the brain. Trudy Gos.
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Gal'perin. Vest. rent. i rad. 37 no.1:81-83 Ja-F '62. (MIRA 15:3)
(NERVOUS ~~SYSTEM~~ RADIOGRAPHY)
(DECKER, KURT)

GAL'PERIN, M. D.

Angiography in the diagnosis of vascular diseases of the brain.

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Bekhtereva.

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Vop.psikh.i nerv. 8:63-80 '62. (MIRA 17:4)

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i rentgenologicheskogo (zav. - prof. M.D.Gal'perin) otdeleniy
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of the magistral vessels of the brain. Vop. psikh. i nevr.
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no.9:292-300 '62. (MIRA 17:1)

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tut imeni V.M. Bekhtereva (dir. - B.A. Lebedev).

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"Supervolttherapy" by J.Becker, G.Schubert. Reviewed by L.M.
God'dshtsin, M.D.Gal'perin. Vopr. onk. 9 no.4:120 '63. (MIRA 17:9)

GAL'PERIN, P.I.

Assemblin- of footine units and rate apparatus for turbines of the
Stalinerad Hydroelectric Power Station, Emerstroi. no.6:43-49 '58.
(MIRA 10:11)

1. Shef-inzhener Leningradskogo metallicheskogo zavoda.
(Stalingrad Hydroelectric Power Station)
(Concrete construction)

PHASE I BOOK EXPLOITATION SOV/5460

Leningradskiy metallicheskiy zavod. Otdel tekhnicheskoy informatsii.

Nekotoryye voprony tekhnologii proizvodstva turbin (Certain Problems in the Manufacture of Turbines) Moscow, Mashgiz, 1960. 398 p. (Series: Its: Trudy, vyp. 7) Errata slip inserted. 2,100 copies printed.

Sponsoring Agency: RSFSR. Sovet narodnogo khozyaystva Leningradskogo ekonomicheskogo administrativnogo rayona, Upravleniye tyazhelogo mashinostroyeniya, and Leningradskiy dvazhdy ordena Lenina metallicheskiy zavod. Otdel tekhnicheskoy informatsii.

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PURPOSE: This collection of articles is intended for technical personnel in turbine plants, institutes, planning organizations, as well as for production innovators.

Card-1/12

Certain Problems (Cont.)

SOV/5460

COVERAGE: The experience of the LMZ (Leningradskiy metallicheskiy zavod - Leningrad Metalworking Plant) in the manufacture of modern large-capacity turbines is presented. Methods for the rationalization of basic manufacturing processes and for the mechanization and automation of manual operations are given. Descriptions of attachments and tools designed by LMZ for improving labor productivity and product quality are provided, and advanced inspection methods discussed. References accompany some articles. No personalities are mentioned. There are 26 references: 25 Soviet and 1 English.

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GAL'PERIN, M.I., inzh.; RUDNIK, A.G., inzh.

Designing, assembling, and testing the runners of the hydraulic turbines of the Volga and Stalingrad Hydroelectric Power Stations.
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(MIR 1961)

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(Volga Hydroelectric Power Station (Lenin)--Hydraulic turbines)
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Hydraulic turbines)

GAL'PERIN, M.I., inzh.

At the Stalingrad Hydroelectric Power Station. *Energomashinostroenie*
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World's largest hydroelectric power plant. Energomashinostroenie
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(Hydraulic turbines--Maintenance and repair)

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GAL'PERIN, N.I., tech.

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Spiral chambers of hydraulic turbines of the Bratsk Hydroelectric
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(MIRA 16:5)

(Bratsk Hydroelectric Power Station) (Hydraulic turbines)

GAL'PERIN, M.I., inzh.; YABLONSKIY, G.A., inzh.

Measures for increasing the reliability of the bleed sectors of
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Energomashinostroenie 9 no.5:38-39 My '63. (MIRA 16:7)

(Hydraulic turbines)

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BRONOVSKIY, G.A., inzh.; GAL'PERIN, M.I., inzh.

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BRONOVSKIY, G.A., inzh.; GAL'PERIN, M.I., inzh.

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Krasnoyarsk Hydroelectric Power Station. Energomashinostroenie
11 no.3:32-34 Mr '65. (MIRA 18t6)

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(MLRA 6:6)
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Cutting building stone with abrasive tools. Mekh.stroi. 11 no.7:
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GAL'PERIN, M.I.

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stroil. 18 no.10:8-10 0 '56. (MLRA 9:11)
(Earthwork--Cold weather conditions)

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Experimental testing of machines used for working frozen ground.
Stroi. prom. 34 no.9:11-12 S '56. (MLRA 9:10)

(Frozen ground) (Earthmoving machinery)

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(Crushing machinery)
(Boring machinery)

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Resistance to breaking of limestone during cutting. Stroi. i dor.
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(Limestone) (stonecutting)

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TITLE:

The Mechanization of Earthwork in Frozen Soil
(Mekhanizatsiya razrabotki merzlykh gruntov)

PERIODICAL:

Stroitel'stvo Predpriyatiy Neftyanoy Promyshlennosti, 1957,
Nr 11, pp. 26-28 (USSR)

ABSTRACT:

Going over to whole-year cultivation, a process that is developing everywhere, and the increasing volume of soil cultivation in the eastern parts of the country made it necessary that hard-frozen soils were worked to an increased extent. This kind of cultivation is of very great importance if it is prepared by electroheating and if loosening of the ground is carried out by means of pneumatic pickaxes. It has already been proved that loosening of the soil by mechanical means is the most rational preparation for the working of hard-frozen soils. The Dieselhammer, which is mounted on a tractor or on a tractor carrier, loosens 100 m³ of hard-frozen soil in the course of one working operation when dealing with excavations on building sites if the depth of freezing attains 0,8 - 1 m. This system is first used for dealing with the initial building trench. The wedge is driven into the frozen soil by means of a Dieselhammer, after which the tractor is moved to the rear,

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